

## STIC Biotechnology Systems Branch

### RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/828,623  
Source: 1FWO  
Date Processed by STIC: 2/7/05

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

**FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:**

**<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

# Raw Sequence Listing Error Summary

ERROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER: <u>10/828,623</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 <u>      </u> Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 <u>      </u> Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 <u>      </u> Misaligned Amino Numbering	The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 <u>      </u> Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 <u>      </u> Variable Length	Sequence(s) <u>      </u> contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 <u>      </u> PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) <u>      </u> . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 <u>      </u> Skipped Sequences (OLD RULES)	Sequence(s) <u>      </u> missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped  Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 <u>      </u> Skipped Sequences (NEW RULES)	Sequence(s) <u>      </u> missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 <u>      </u> Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 <u>  ✓  </u> Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 <u>      </u> Use of <220> <u>PTI</u> <u>      </u>	Sequence(s) <u>      </u> missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 <u>      </u> PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 <u>      </u> Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid	



IFWO

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/828,623

DATE: 02/07/2005

TIME: 08:25:44

Input Set : A:\New England-0008.ST25.txt

Output Set: N:\CRF4\02072005\J828623.raw

3 <110> APPLICANT: Carr, Daniel  
 4 Misicka-Kesik, Aleksandra  
 5 Kream, Richard  
 6 Lipkowski, Andrzej  
 8 <120> TITLE OF INVENTION: Novel Chimeric Analgesic Peptides  
 10 <130> FILE REFERENCE: 2004117-0008  
 12 <140> CURRENT APPLICATION NUMBER: 10/828,623  
 13 <141> CURRENT FILING DATE: 2004-04-21  
 15 <160> NUMBER OF SEQ ID NOS: 43  
 17 <170> SOFTWARE: PatentIn version 3.2  
 19 <210> SEQ ID NO: 1  
 20 <211> LENGTH: 15  
 21 <212> TYPE: PRT  
 22 <213> ORGANISM: a-endorphin  
 24 <400> SEQUENCE: 1  
 26 Thr Gly Gly Phe Met Thr Ser Glu Ser Gln Thr Pro Leu Val Thr  
 27 1 5 10 15  
 30 <210> SEQ ID NO: 2  
 31 <211> LENGTH: 4  
 32 <212> TYPE: PRT  
 33 <213> ORGANISM: endomorphin-1  
 35 <400> SEQUENCE: 2  
 37 Tyr Pro Trp Phe  
 38 1  
 41 <210> SEQ ID NO: 3  
 42 <211> LENGTH: 4  
 43 <212> TYPE: PRT  
 44 <213> ORGANISM: endomorphin-2  
 46 <400> SEQUENCE: 3  
 48 Tyr Pro Phe Phe  
 49 1  
 52 <210> SEQ ID NO: 4  
 53 <211> LENGTH: 7  
 54 <212> TYPE: PRT  
 55 <213> ORGANISM: dermorphin  
 57 <400> SEQUENCE: 4  
 59 Tyr Ala Phe Gly Tyr Pro Ser  
 60 1 5  
 63 <210> SEQ ID NO: 5  
 64 <211> LENGTH: 7  
 65 <212> TYPE: PRT  
 66 <213> ORGANISM: b-casomorphin (bovine)  
 68 <400> SEQUENCE: 5

pgs 1-5

Does Not Comply  
Corrected Diskette Neededinvalid <213> response  
(see item 10 on Error Summary sheet)

same error

same

move "Bovine" to beginning of response

Bovine

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/828,623

DATE: 02/07/2005

TIME: 08:25:44

Input Set : A:\New England-0008.ST25.txt

Output Set: N:\CRF4\02072005\J828623.raw

70 Tyr Pro Phe Pro Gly Pro Ile

71 1 5

74 &lt;210&gt; SEQ ID NO: 6

75 &lt;211&gt; LENGTH: 7

76 &lt;212&gt; TYPE: PRT

77 <213> ORGANISM: b-casomorphin ~~(human)~~ *Human*

79 &lt;400&gt; SEQUENCE: 6

81 Tyr Pro Phe Val Glu Pro Ile

82 1 5

85 &lt;210&gt; SEQ ID NO: 7

86 &lt;211&gt; LENGTH: 4

87 &lt;212&gt; TYPE: PRT

88 <213> ORGANISM: morphiceptin *see item 10 on Enr summary sheet*

90 &lt;400&gt; SEQUENCE: 7

92 Tyr Pro Phe Pro

93 1

96 &lt;210&gt; SEQ ID NO: 8

97 &lt;211&gt; LENGTH: 5

98 &lt;212&gt; TYPE: PRT

99 &lt;213&gt; ORGANISM: leu-enkephalin

101 &lt;400&gt; SEQUENCE: 8

103 Tyr Gly Gly Phe Leu

104 1 5

107 &lt;210&gt; SEQ ID NO: 9

108 &lt;211&gt; LENGTH: 5

109 &lt;212&gt; TYPE: PRT

110 &lt;213&gt; ORGANISM: met-enkephalin

112 &lt;400&gt; SEQUENCE: 9

114 Tyr Gly Gly Phe Met

115 1 5

118 &lt;210&gt; SEQ ID NO: 10

119 &lt;211&gt; LENGTH: 4

120 &lt;212&gt; TYPE: PRT

121 &lt;213&gt; ORGANISM: dalda

123 &lt;400&gt; SEQUENCE: 10

125 Tyr Arg Phe Lys

126 1

129 &lt;210&gt; SEQ ID NO: 11

130 &lt;211&gt; LENGTH: 4

131 &lt;212&gt; TYPE: PRT

132 &lt;213&gt; ORGANISM: PL017

134 &lt;400&gt; SEQUENCE: 11

136 Tyr Pro Phe Pro

137 1

140 &lt;210&gt; SEQ ID NO: 12

141 &lt;211&gt; LENGTH: 5

142 &lt;212&gt; TYPE: PRT

143 &lt;213&gt; ORGANISM: Dadle

145 &lt;400&gt; SEQUENCE: 12

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/828,623

DATE: 02/07/2005

TIME: 08:25:44

Input Set : A:\New England-0008.ST25.txt

Output Set: N:\CRF4\02072005\J828623.raw

147 Tyr Ala Gly Phe Leu  
 148 1 5  
 151 <210> SEQ ID NO: 13  
 152 <211> LENGTH: 6  
 153 <212> TYPE: PRT  
 154 <213> ORGANISM: Dslet  
 156 <400> SEQUENCE: 13  
 158 Tyr Ser Gly Phe Leu Thr  
 159 1 5  
 162 <210> SEQ ID NO: 14  
 163 <211> LENGTH: 5  
 164 <212> TYPE: PRT  
 165 <213> ORGANISM: X = pen is penicillamine, or 3-mercapto-(D) Valine  
 168 <220> FEATURE:  
 169 <221> NAME/KEY: misc\_feature  
 170 <222> LOCATION: (2)..(2)  
 171 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid  
 173 <220> FEATURE:  
 174 <221> NAME/KEY: misc\_feature  
 175 <222> LOCATION: (5)..(5)  
 176 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid  
 178 <400> SEQUENCE: 14  
 180 Tyr Xaa Gly Phe Xaa  
 181 1 5  
 184 <210> SEQ ID NO: 15  
 185 <211> LENGTH: 7  
 186 <212> TYPE: PRT  
 187 <213> ORGANISM: deltorphin I  
 189 <400> SEQUENCE: 15  
 191 Tyr Ala Phe Asp Val Val Gly  
 192 1 5  
 195 <210> SEQ ID NO: 16  
 196 <211> LENGTH: 7  
 197 <212> TYPE: PRT  
 198 <213> ORGANISM: deltorphin II  
 200 <400> SEQUENCE: 16  
 202 Tyr Ala Phe Glu Val Val Gly  
 203 1 5  
 206 <210> SEQ ID NO: 17  
 207 <211> LENGTH: 7  
 208 <212> TYPE: PRT  
 209 <213> ORGANISM: dermenkephalin  
 211 <400> SEQUENCE: 17  
 213 Tyr Met Phe His Leu Met Asp  
 214 1 5  
 217 <210> SEQ ID NO: 18  
 218 <211> LENGTH: 17  
 219 <212> TYPE: PRT  
 220 <213> ORGANISM: dynorphin A

?? invalid <213> response

W\* ->

## RAW SEQUENCE LISTING

DATE: 02/07/2005

PATENT APPLICATION: US/10/828,623

TIME: 08:25:44

Input Set : A:\New England-0008.ST25.txt

Output Set: N:\CRF4\02072005\J828623.raw

222 <400> SEQUENCE: 18  
 224 Tyr Gly Gly Phe Leu Arg Arg Ile Arg Pro Lys Leu Lys Trp Asp Asn  
 225 1 5 10 15  
 228 Gln  
 232 <210> SEQ ID NO: 19  
 233 <211> LENGTH: 8  
 234 <212> TYPE: PRT  
 235 <213> ORGANISM: Dyn (1-8)  
 237 <400> SEQUENCE: 19  
 239 Tyr Gly Gly Phe Leu Arg Arg Ile  
 240 1 5  
 243 <210> SEQ ID NO: 20  
 244 <211> LENGTH: 13  
 245 <212> TYPE: PRT  
 246 <213> ORGANISM: Dyn (1-13)  
 248 <400> SEQUENCE: 20  
 250 Tyr Gly Gly Phe Leu Arg Arg Ile Arg Pro Lys Leu Lys  
 251 1 5 10  
 254 <210> SEQ ID NO: 21  
 255 <211> LENGTH: 11  
 256 <212> TYPE: PRT  
 257 <213> ORGANISM: SP  
 259 <400> SEQUENCE: 21  
 261 Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met  
 262 1 5 10  
 265 <210> SEQ ID NO: 22  
 266 <211> LENGTH: 12  
 267 <212> TYPE: PRT  
 268 <213> ORGANISM: SP-glycine  
 270 <400> SEQUENCE: 22  
 272 Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met Gly  
 273 1 5 10  
 276 <210> SEQ ID NO: 23  
 277 <211> LENGTH: 13  
 278 <212> TYPE: PRT  
 279 <213> ORGANISM: SP-Glycine-Lysine  
 281 <400> SEQUENCE: 23  
 283 Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met Gly Lys  
 284 1 5 10  
 287 <210> SEQ ID NO: 24  
 288 <211> LENGTH: 14  
 289 <212> TYPE: PRT  
 290 <213> ORGANISM: SP-Glycine-Lysine-Arginine  
 292 <400> SEQUENCE: 24  
 294 Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met Gly Lys Arg  
 295 1 5 10  
 298 <210> SEQ ID NO: 25  
 299 <211> LENGTH: 12  
 300 <212> TYPE: PRT

## RAW SEQUENCE LISTING

DATE: 02/07/2005

PATENT APPLICATION: US/10/828,623

TIME: 08:25:44

Input Set : A:\New England-0008.ST25.txt

Output Set: N:\CRF4\02072005\J828623.raw

301 <213> ORGANISM: SP-Glycine-Methyl Ester  
303 <400> SEQUENCE: 25  
305 Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met Gly  
306 1 5 10  
309 <210> SEQ ID NO: 26  
310 <211> LENGTH: 13  
311 <212> TYPE: PRT  
312 <213> ORGANISM: SP-Glycine-Lysine-Methyl Ester  
314 <400> SEQUENCE: 26  
316 Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met Gly Lys  
317 1 5 10  
320 <210> SEQ ID NO: 27  
321 <211> LENGTH: 14  
322 <212> TYPE: PRT  
323 <213> ORGANISM: SP-Glycine-Lysine-Arginine Methyl Ester  
325 <400> SEQUENCE: 27  
327 Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met Gly Lys Arg  
328 1 5 10  
331 <210> SEQ ID NO: 28  
332 <211> LENGTH: 12  
333 <212> TYPE: PRT  
334 <213> ORGANISM: SP-Glycine-Ethyl Ester  
336 <400> SEQUENCE: 28  
338 Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met Gly  
339 1 5 10  
342 <210> SEQ ID NO: 29  
343 <211> LENGTH: 13  
344 <212> TYPE: PRT  
345 <213> ORGANISM: SP-Glycine-Lysine Ethyl Ester  
347 <400> SEQUENCE: 29  
349 Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met Gly Lys  
350 1 5 10  
353 <210> SEQ ID NO: 30  
354 <211> LENGTH: 14  
355 <212> TYPE: PRT  
356 <213> ORGANISM: SP-Glycine-Lysine-Arginine Ethyl Ester  
358 <400> SEQUENCE: 30  
360 Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met Gly Lys Arg  
361 1 5 10  
364 <210> SEQ ID NO: 31  
365 <211> LENGTH: 4  
366 <212> TYPE: PRT  
367 <213> ORGANISM: Recombinant  
369 <400> SEQUENCE: 31  
371 Arg Pro Lys Pro  
372 1  
375 <210> SEQ ID NO: 32  
376 <211> LENGTH: 7  
377 <212> TYPE: PRT

FYI

The types of errors shown exist throughout  
the Sequence Listing. Please check subsequent  
sequences for similar errors.

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/828,623

DATE: 02/07/2005  
TIME: 08:25:45

Input Set : A:\New England-0008.ST25.txt  
Output Set: N:\CRF4\02072005\J828623.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:14; Xaa Pos. 2, 5

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:43



**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/828,623

DATE: 02/07/2005

TIME: 08:25:45

Input Set : A:\New England-0008.ST25.txt

Output Set: N:\CRF4\02072005\J828623.raw

L:180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0